

CAFO FACILITY INSPECTION REPORT

OFFICE NO:

PCA SYSTEM TASK NO:

INSPECTOR(S): Anthony D'Angelo (PG Environmental, LLC)

FACILITY INFORMATION

<u>8365950001</u> WDID NUMBER	<u>Geoffrey Vanden Heuvel</u> OWNER NAME	<u>J & D Star Dairy No. 1</u> FACILITY NAME
<u>CAG018001</u> NPDES NUMBER	Ex. 6 Personal Privacy (PP)	
<u>R8-2007-0001</u> RWQCB ORDER NO.	<u>Chino, CA 91710</u> OWNER CITY AND STATE	<u>Chino, CA 91710</u> FACILITY CITY AND STATE
<u>04/10/2013</u> SCHEDULED INSPECTION DATE	<u>Geoffrey Vanden Heuvel</u> OWNER CONTACT	<u>Geoffrey Vanden Heuvel</u> FACILITY CONTACT
<u>04/10/2013</u> ACTUAL INSPECTION DATE	Ex. 6 Personal Privacy (PP)	
<u>Santa Ana River</u> RECEIVING WATER	<u>Ex. 6 Personal Privacy (PP)</u> FACILITY LATITUDE	<u>Ex. 6 Personal Privacy (PP)</u> FACILITY LONGITUDE

INSPECTION TYPE

- | | |
|---|---|
| <input type="checkbox"/> (A1) "A" type compliance -- (EPA Type S) | <input type="checkbox"/> (04) Complaint - Complaint |
| <input checked="" type="checkbox"/> (B1) "B" type compliance -- (EPA Type C) | <input type="checkbox"/> (05) Pre-requirement |
| <input type="checkbox"/> (02) Noncompliance follow-up - Correction of a previously identified violation | <input type="checkbox"/> (06) Miscellaneous |
| <input type="checkbox"/> (03) Enforcement follow-up - Enforcement action is being met | |

(Type) NOTE: If this is an EPA inspection not mentioned above, please note type (e.g., biomonitoring, performance audit, diagnostic, etc.)

No	Was the inspection pre-announced?
Yes	Were potential violations noted during this inspection?
No	Was this a quality assurance-based inspection?
No	Were bioassay samples collected?
No	Were water quality samples collected?

INSPECTION SUMMARY

The overall Facility rating, on a 1 (Unreliable) to 5 (Very Reliable) scale, was determined to be: 4 = Reliable.

J & D Star Dairy No. 1 (hereinafter, Facility) was rated "Reliable" due to the following items:

- Vegetation growth was observed in lagoon No. 1 in the southern portion of the Facility (refer to Photos 9, 10, and 11).

INSPECTOR DATA

INITIALS AJD SIGNATURE _____ DATE 04/10/2013

CIWQS DATA ENTRY DATE: _____ REGIONAL BOARD FILE NUMBER: _____

FOR INTERNAL USE: REVIEWED BY: (1) _____ (2) _____ (3) _____

REPORT PREPARED BY: Anthony D'Angelo (PG Environmental, LLC) ON 04/24/2013

EPA SUGGESTED INSPECTION CHECKLIST

- | | | | |
|--|---|---|--|
| <input checked="" type="checkbox"/> Permit | <input type="checkbox"/> Flow Measurement | <input type="checkbox"/> Pretreatment | <input checked="" type="checkbox"/> Operations & Maintenance |
| <input checked="" type="checkbox"/> Records/Reports | <input type="checkbox"/> Laboratories | <input type="checkbox"/> Compliance Schedules | <input type="checkbox"/> Sludge Disposal |
| <input checked="" type="checkbox"/> Facility Site Review | <input type="checkbox"/> Eff/Receiving Waters | <input type="checkbox"/> Self- Monitoring | <input type="checkbox"/> Other |

POTENTIAL VIOLATIONS

1. Vegetation growth was observed in lagoon No. 1 in the southern portion of the Facility (refer to Photos 9, 10, and 11). The Discharger must design and maintain all containment structures per the EWMP as required by Provision VII.C.3.a of the Permit.

Description of Potential Violation: **Refer to item No. 1 of the 'Facility Housekeeping, Wastewater, and Manure Information' section of this report for additional details.**

Date of Potential Violation: **N/A**

Date of Potential Violation Determination: **April 10, 2013**

INSPECTION OBSERVATIONS

On April 10, 2013, a Concentrated Animal Feeding Operation (CAFO) inspection was conducted for Santa Ana Water Board Order No. R8-2007-0001 - 'General Waste Discharge Requirements for Concentrated Animal Feeding Operations (Dairies and Related Facilities) within the Santa Ana Region', NPDES General Permit No. (CAG018001) at J & D Star Dairy No. 1 in Chino, California (refer to Photo 1). The inspector met with Mr. Geoffrey Vanden Heuvel (Owner, J & D Star Dairy No.1) at approximately 11:00 AM on April 10, 2013. Mr. Vanden Heuvel declined to participate in the Facility site visit; however, he requested a closing conference at the conclusion of the inspection. A closing conference was provided to Mr. Vanden Heuvel at approximately 12:30 PM. During the closing conference, the inspector reviewed the preliminary inspection findings with Facility representative.

The Facility is a 74.57-acre dairy farm with an animal population of approximately 720 milking cows and 120 dry cows at the time of the inspection. Process wastewater from milking and cow washing activities is collected into drain inside the milking barn and south of the wash pen. Process wastewater collected in the drains is piped south to a standpipe located adjacent to the commodity barn in the southern portion of the Facility (refer to Photo 3). Process wastewater in the standpipe is released to multiple disposal structures in field No. 1 located in the southern portion of the Facility, north of lagoon No. 1 (refer to Photos 4, 5, and 6). All process wastewater and storm water runoff at the Facility is infiltrated into field No. 1. Mr. Vanden Heuvel stated that field No. 1 is occasionally disked, and that the soil is very sandy which promotes percolation. In addition, he stated that process wastewater applied onto field No. 1 has never entered lagoon No. 1, and that storm water runoff rarely enters the lagoon. Process wastewater accumulation was observed on the southeast side of field No. 1, north of lagoon No. 1 (refer to Photos 7 and 8). Due to the lack of water entering the lagoon, Mr. Vanden Heuvel stated that the lagoon has never had to be cleaned. A floating pump and depth marker were present in lagoon No. 1 (refer to Photos 9, 10, and 11). All storm water runoff from the corrals flows south into the north side of field No. 1, and subsequently into lagoon No. 1. A cropland, identified as field No. 2 on the approved EWMP Site Plan, on the east side of the Facility is leased to Mr. Sam Lewis for crop production (refer to Photos 12 and 13). The 2012 Annual Report documented that all manure from the Facility was hauled offsite and brought to Lewis Farms on Merrill Avenue in Chino, California. Mr. Vanden Heuvel stated that manure is not land applied onto the cropland on the east side of the Facility.

Mr. Vanden Heuvel stated that the corrals are cleaned three (3) to four (4) times per year and scraped every seven (7) to ten (10) days (refer to Photo 2). All manure is hauled offsite to Lewis Farms in Chino, California. Manure tracking manifests of all haul events during the 2012 reporting period were available for review at the time of the inspection. The most recent Nutrient Analysis was conducted on December 27, 2012. Mr. Vanden Heuvel stated that all mortalities are removed from the Facility immediately by Stiles Animal Removal, Inc.

FACILITY

CAFO Size: **Large**
(at time of inspection)

Total Acres: **74.57**

Production Area Acres: **71.85**

CONTAINMENT STRUCTURES

Wastewater Lagoons: **1**

Evaporation Ponds: **0**

Catch Basins: **0**

Depth Markers: **1**

Other: **1 disposal field**

ANIMALS ONSITE DURING INSPECTION

Milk Cows: **720**

Dry Cows: **120**

Heifers: **0**

Calves: **0**

Other: **N/A**

ANNUAL REPORT REVIEW

ANNUAL REPORT

Monitoring Year: **2012**

Reviewed: **Yes**

Signed & Certified: **Yes**

Submittal Date: **January 14, 2013**

REPORTED ANIMAL POPULATION

Milk Cows: **700**

Dry Cows: **140**

Heifers: **0**

Calves: **0**

Other: **N/A**

MANURE INFORMATION

Amount of manure spread on cropland at the Facility: **None**

Amount of manure hauled away from the Facility: **3,950 Tons**

Name and location of the composting operation, or, if the manure was hauled to cropland, the owner or tenant, and the destination address: **Ex. 6 Personal Privacy (PP)**

ENGINEERED WASTE MANAGEMENT PLAN (EWMP) REVIEW

Did the inspector review the EWMP in the RWQCB file?

Yes

Did the Facility have a copy of the EWMP on-site and available for review?

Yes

EWMP preparation date:

October 2002

EWMP prepared by:

Nolte Associates, Inc.

Santa Ana RWQCB EWMP acceptance date:

April 14, 2003

EWMP was certified by the Facility's engineer/consultant on:

Unknown

NUTRIENT MANAGEMENT PLAN (NMP) REVIEW (IF APPLICABLE)

Did the Facility have a copy of the NMP on-site and available for review?

N/A

Date NMP was prepared:

N/A

NMP prepared by:

N/A

Santa Ana RWQCB NMP acceptance date:

N/A

1. The Discharger does not apply manure, litter, or process wastewater to croplands under their ownership or operational control; therefore, the Discharger is not required to develop, implement, and retain onsite a Nutrient Management Plan as stated in Provision VII.C.3.d of the Permit.

FACILITY HOUSEKEEPING, WASTEWATER, AND MANURE INFORMATION

Typical Depth of Manure in Corrals (in inches):	4-6
Estimated Freeboard in Fullest Lagoon (in feet):	Dry
Date of Last Lagoon Solids Removal, per Facility Representative:	Never
Disposal Location for Lagoon Solids:	N/A

CONDITION OF BERMS AND CONTAINMENT STRUCTURES

1. The inspector observed, during the inspection, that vegetation growth potentially affecting the containment structure capacity was present in lagoon No. 1 located in the southern portion of the Facility (refer to Photos 9, 10, and 11). Mr. Vanden Heuvel stated that the lagoon has never been used and rarely accumulates storm water runoff; therefore, no maintenance has ever been performed on the pond. As a result of the vegetation growth, the overall capacity of the containment structures at the Facility may be diminished. The Discharger must design and maintain all containment structures per the EWMP as required by Provision VII.C.3.a of the Permit.

ITEMS FOR FOLLOW UP ON FUTURE INSPECTIONS

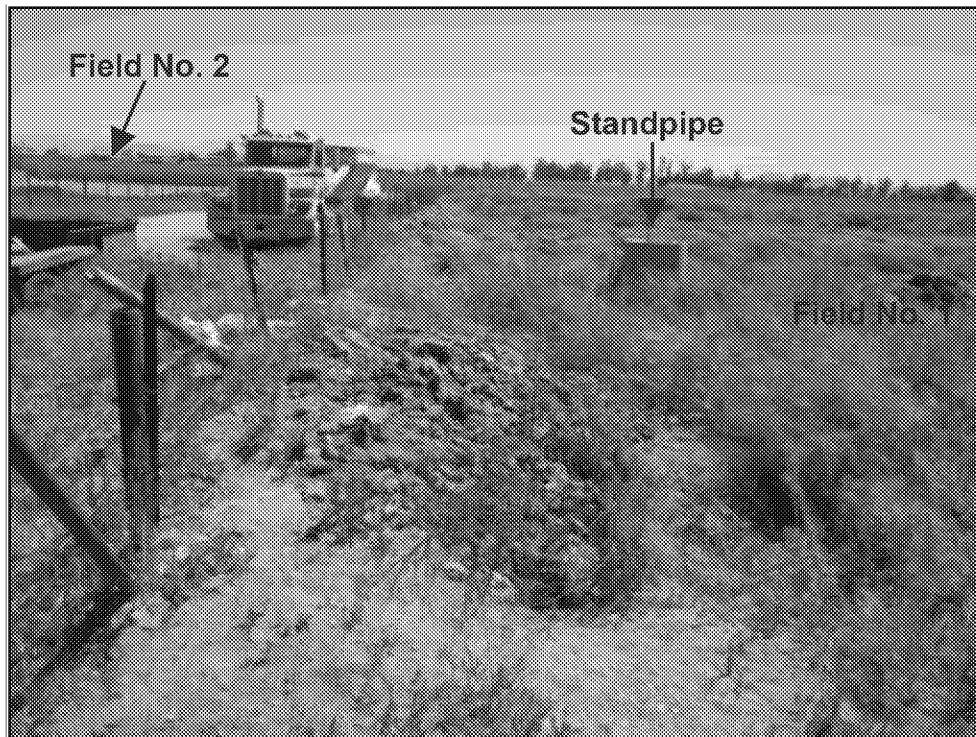
1. Verify that vegetation growth is not diminishing the capacity of lagoon No. 1.



Photograph 1. J & D Star Dairy No. 1 Facility sign.



Photograph 2. View facing southeast of corral No. 5. Mr. Vanden Heuvel stated corrals are typically cleaned three (3) to four (4) times per year, and scraped every seven (7) to ten (10) days.



Photograph 3. View facing east of the process wastewater standpipe located in the northeast portion of field No. 1. The standpipe conveys process wastewater to multiple risers along the north side of the field for land application.



Photograph 4. View facing southeast of a riser actively releasing process wastewater onto the northeastern portion of field No. 1.



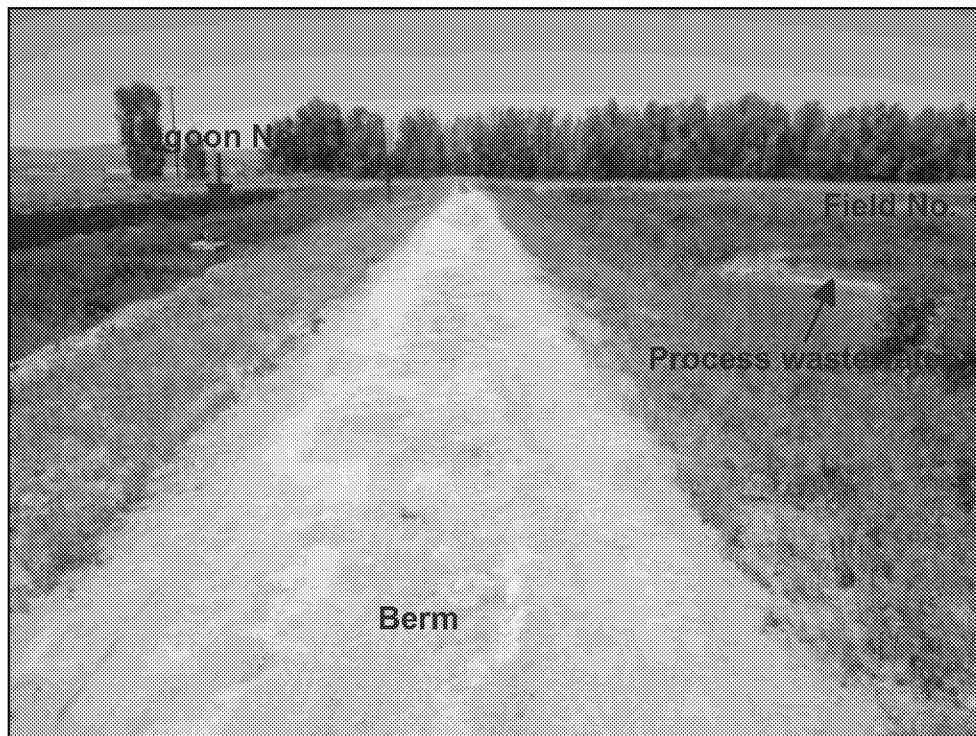
Photograph 5. Close-up view of the riser shown in Photograph 4.



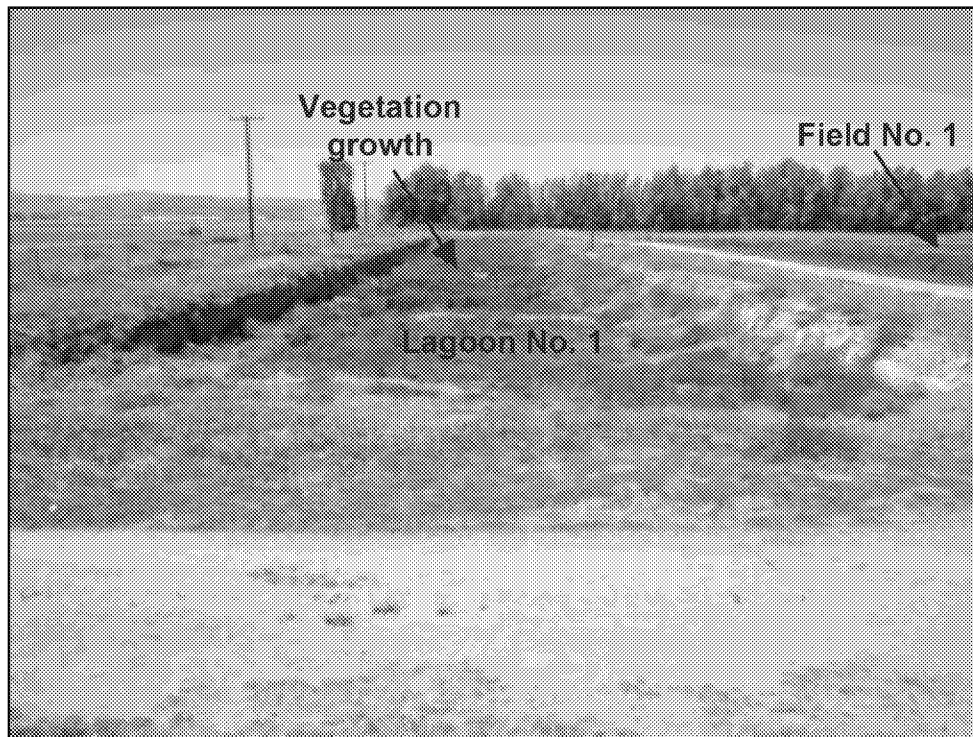
Photograph 6. View facing south of field No. 1. Note Mr. Vanden Heuvel stated the field is occasionally disked and that percolation rates are fast due to the sandy nature of the soil.



Photograph 7. View facing north of process wastewater accumulation on the southeast side of field No. 1. Note Mr. Vanden Heuvel stated process wastewater has never entered lagoon No. 1.



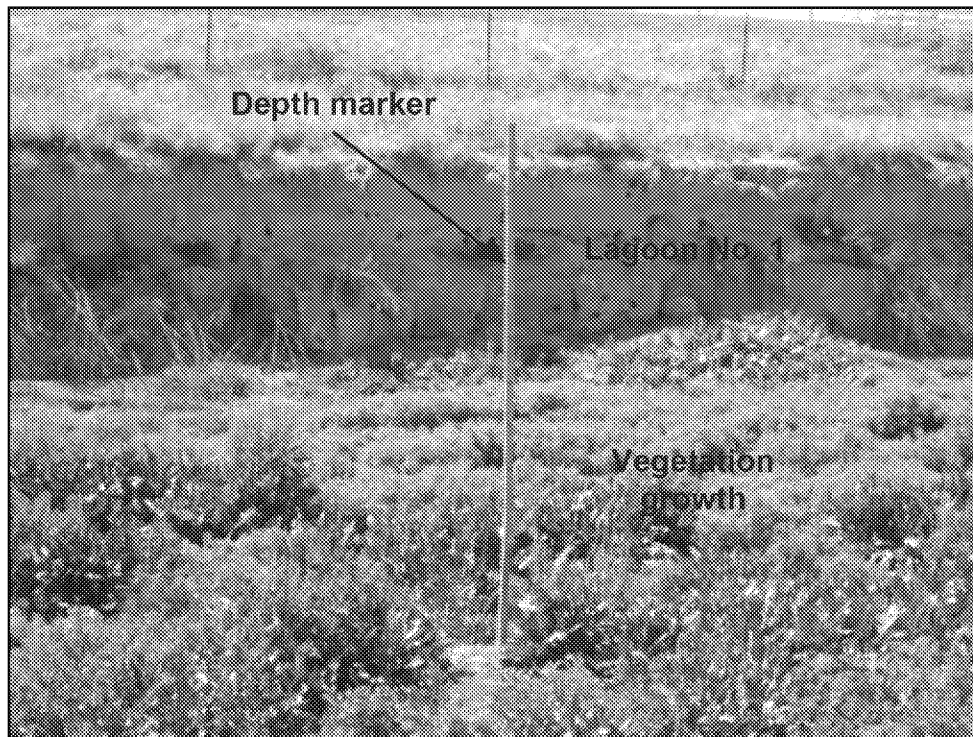
Photograph 8. View facing west of an earthen berm between the south side of field No. 1 and the north side of lagoon No. 1. Note Mr. Vanden Heuvel stated process wastewater has never entered lagoon No. 1. Also note the accumulated process wastewater on the south side of field No. 1, shown in Photograph 7.



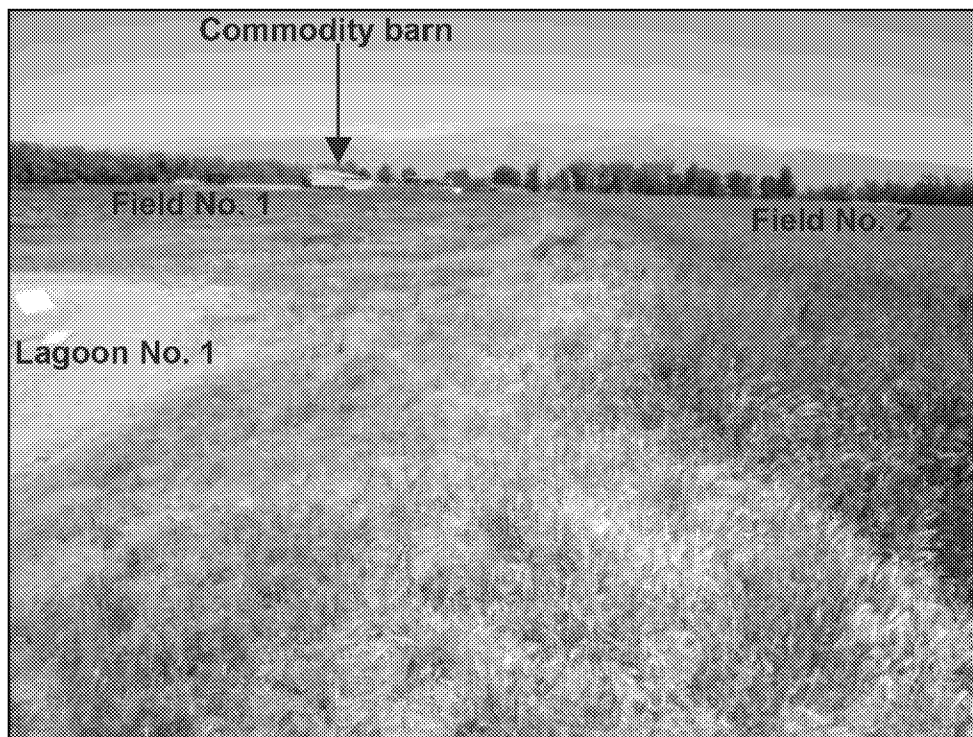
Photograph 9. View facing west of lagoon No. 1. Note vegetation growth was observed growing on the bottom of the lagoon.



Photograph 10. View facing southeast of vegetation growth inside lagoon No. 1. Note the lagoon contained a floating pump.



Photograph 11. View facing south of vegetation growth inside lagoon No. 1. Note the lagoon contained a depth marker.



Photograph 12. View facing north of field Nos. 1 and 2. Note field No. 2 was currently being leased to Mr. Sam Lewis for crop production.



Photograph 13. View facing northeast of field No. 2 from the southwest corner of the field. Note field No. 2 was being leased to Mr. Sam Lewis for crop production at the time of the inspection.